1.	Course Title	Human-computer interaction design						
2.	Code	F18L3S010						
3.	Study program	Software engineering and information systems						
4.	Study Program Organizer	Faculty of Computer Science and Engineering						
5.	Degree (first, second, third cycle)	first cycle						
6.	Academic year / semester 3 / summer / optional	7. ECTS credits6						
8.	Teacher	full professor Suzana Loshkovska, associa professor SoNja Gievska, associate professor Never Ackovska, assistant professor Ivan Kitanovski						
9.	Course enrollment prerequisites	Алгоритми и податочни структури						
	Course program goals (competencies): The purpose of the course is to introduce the basic principles for designing interactive computer systems to students. For this purpose the process of designing interactive systems, design phases (collection and analysis of requirements, prototyping implementation and usability testing) will be introduced to students. Upon completion of the course, the student is expected to demonstrate knowledge of the process and phases for designing interactive systems and can independently or in a team design and implement a prototype of interactive system.							
11.	Course program content: (1) Introduction, terminology, history. (1) Human in the human-computer interaction, physical characteristics, cognitive aspects. (1) Usability, principles, standards, accessibility, user experience. (1) Human computer interaction design process, approaches and features of the design process. (2) Collection of requirements, interviewing techniques, observation, defining personas and scenarios. (1) Representation, sketches, storyboards, prototypes, low fidelity prototypes, high fidelity prototypes. (1) Task analysis. (3) Principles for interactive design, elements of visual interfaces, error handling, help, and documentation. (2) User interface evaluation, evaluation methods and techniques, evaluation measures, usability heuristics and usability testing principles.							
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.							
13.	Total available time	6 ECTS x 30 hours = 180 hours						
14.	Distribution of the available time	30 + 45 + 15 + 15 + 75 = 180 hours						

15.	Teaching activity forms	15.1.	Lectures – the teaching	oretical	30 hours		
		15.2.	. Exercises (laboratory		, 45 hours		
			auditory), seminar	papers,			
			teamwork				
16.	Other activity forms	16.1.	Project Tasks	15 hours			
		16.2.	Independent L Tasks	15 hours			
		16.3.	Home learning		75 hours		
17.	Assessment methodology						
	17.1. Tests	10 po	10 points				
	17.2. Seminar paper/project (presenta	10 pc	10 points				
	17.3. Activity and learning	10 pc	10 points				
	17.4. Final exam			70 pc	oints		
18.	Assessment criteria (points/grade)	ur	up to 50 points		5 (five) (F)		
		51	to 60 points	(E)			
		61	to 70 points	ven) (D)			
		71	to 80 points	8 (eig	ght) (C)		
		81	to 90 points	9 (nir	ne) (B)		
		91	to 100 points	10 (te	en) (A)		
19.	Course completion and final ex requirements	kam R	ealized activities 15.	l and 1:	5.2		
20.	Teaching Language Macedonian and English						
21.	Teaching quality evaluation method	qı	Internal evaluat iestionnaires	ion	mechanisms and		
22.	Course Material						
	22.1. Mandatory course material						

	No	Aut	hor	Title		Publisher		Year	
	1	Dav	vid Benyon	Designin Interactiv Systems Compreh Guide UX & In Design	ng ve : A nensive to HCI, nteraction	Trans-Atlan Publications Inc.; Comprehent edition	tic 5, sive	2013	
	2	Jenr Hele Yvo	ny Preece, en Sharp, onne Rogers	Interaction Design: Human- Computer Interaction	on Beyond er on	Wiley; edition	4	2015	
	3 Ben Shneiderman, Catherine Plaisant, Maxir Cohen	eiderman, herine sant, Maxine ien	Designir User Strategie Effective Human- Compute Interactio Global E	ng the Interface: es for er on, Edition	Pearson Education Limited; edition editi	6th on	2017		
22.2.	Additional course material								
	No. Author		Intle Put		Publ	Isher	Year		